

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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|---|---|---|
| Applicant's or agent's file reference <p style="text-align: center;">FPEL03150003</p> | <div style="display: flex; justify-content: space-between;"> FOR FURTHER ACTION See Form PCT/IPEA/416 </div> | |
| International application No. <p style="text-align: center;">PCT / CN03 / 00101</p> | International filing date (<i>day/month/year</i>) <p style="text-align: center;">29. Jan. 2003 (29. 01. 03)</p> | Priority date (<i>day/month/year</i>) |
| International Patent Classification (IPC) or national classification and IPC <p style="text-align: center;">IPC7: H04L 1/20</p> | | |
| Applicant <p style="text-align: center;">TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) et al</p> | | |
| 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet. 3. This report is also accompanied by ANNEXES, comprising: <div style="margin-left: 20px;"> a. <input type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of _____ sheets, as follows: <div style="margin-left: 20px;"> <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. </div> b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). </div> | | |
| 4. This report contains indications relating to the following items: <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application </div> | | |
| Date of submission of the demand <p style="text-align: center;">2. Aug. 2004 (02. 08. 04)</p> | Date of completion of this report <p style="text-align: center;">18 April 2005 (18. 04. 05)</p> | |
| Name and mailing address of the IPEA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451 | Authorized officer <p style="text-align: center;">Wu, Lei</p> Telephone No. (86-10) 62084539 | |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/ CN03/00101

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

☒ the international application as originally filed/furnished

☐ the description:

pages _____ as originally filed/furnished

pages * _____ received by this Authority on _____

pages * _____ received by this Authority on _____

☐ the claims:

pages _____ as originally filed/furnished

pages * _____ as amended (together with any statement) under Article 19

pages * _____ received by this Authority on _____

pages * _____ received by this Authority on _____

☐ the drawings:

pages _____ as originally filed/furnished

pages * _____ received by this Authority on _____

pages * _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/ CN03/00101**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement:**

| | | |
|-------------------------------|--------------------|-----|
| Novelty (N) | Claims <u>1—24</u> | YES |
| | Claims _____ | NO |
| Inventive step (IS) | Claims <u>1—24</u> | YES |
| | Claims _____ | NO |
| Industrial applicability (IA) | Claims <u>1—24</u> | YES |
| | Claims _____ | NO |

2. Citations and explanations (Rule 70.7)

The document WO0057654 discloses the estimating interference method for CDMA system, which comprises reserving code in set of codes for interference measurement, receiving composite signal and estimating interference at receiver using reserved code .

The document WO0054427 discloses the receiver for use in CDMA telecommunication system, which estimates the transmitted chip sequence of CDMA channel and restores orthogonality among received users' signal, by receiving reference signal.

The document WO9851030 discloses the determination of signal to interference plus noise power for communications system-combining diversity signals with known weights to reduce co-channel interference, which weights being obtained from correlation matrix and reference signal correlation vector using sliding window starting with synchronization symbols.

The features of the independent claim 1,claim 7,claim 9,claim 15,claim 17 and claim 23 can not be derivable from the above cited documents, therefore the subject-matter of independent claim 1,claim 7,claim 9,claim 15,claim 17 and claim 23 are considered to be new and to involve an inventive step and meet the requirements of Article 33(2) and (3) PCT.

As claims 2-6 are dependent on claim 1, claim 8 is dependent on claim 7, claims 10-14 are dependent on claim 9, claim 16 is dependent on claim 15, claims 18-22 are dependent on claim 17, claim 24 is dependent on claim 23, the said claims 2-6, claim 8 , claims 10-14 , claim 16 , claims 18-22 and claim 24 do also meet the requirements of Article 33 (2) and (3) PCT.

The present invention is susceptible of industrial application and meets the requirements of Article 33 (4) PCT.